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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: A8564

Zeev ALTBOUM, et al.

Appln. No.: 09/839,894

Group Art Unit: 1648

Confirmation No.: 4293

Examiner: Lucas, Z.

Filed: April 20, 2001

For:

ISOLATION AND CHARACTERIZATION OF THE CSA OPERON (ETEC-CS4 PILI)

AND METHODS OF USING SAME

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 and 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed (without a Statement Under 37 C.F.R § 1.97(e)) after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action, Notice of Allowance, or an action that otherwise closes prosecution in the application (whichever is earlier), and therefore a check for the fee of \$180.00 under 37 C.F.R. § 1.17(p) is attached.

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INFORMATION DISCLOSURE STATEMENT

U.S. Appln. No.: 09/839,894

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any

listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,

SUGHRUE MION, PLLC

Telephone: (202) 293-7060

Facsimile: (202) 293-7860

WASHINGTON OFFICE

CUSTOMER NUMBER

Drew Hissong

Registration No. 44,765

Date: April 20, 2004

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

First Named Inventor Zeev ALTBOUM 1648 Art Unit (use as many sheets as necessary) Lucas, Z. Examiner Name Attorney Docket Number A8564 Sheet 1 of 1

Application Number

Filing Date

Confirmation Number

Complete if Known

09/839,894 4293

April 20, 2001

	U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Document	Number	Publication Date					
		Number	Kind Code ² (if known)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document				
		US							
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	FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date	Name of Patentee or				
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation ⁶			
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NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.						
		Freedman DJ, et al. Milk Immunoglobulin with Specific Activity against Purified Colonization Factor Antigens Can Protect against Oral Challenge with Enterotoxigenic Escherichia coli. J. Infect. Disease 177:662-667 (1998).						
		Levine, MM, et al. Immunity to Enterotoxigenic Escherichia coli. Infect. Immun. 23:729-736 (1979).						
	Altboum, Z, et al. Genetic Characterization and Immunogenicity of Coli Surface Antigen 4 from Enterotoxigenic <i>Escherichia coli</i> when it is Expressed in a <i>Shigella</i> Live-Vector Strain. <i>Infect. Immun.</i> 71:1352-1360 (2003).							
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		Scott, JR, et al. CooB is required for assembly but not transport of CS1 pilin. <i>Mol. Micro</i> . 6(3):293-300 (1992).						
		Froehlich, BJ, et al CooC and CooD are required for assembly of CS1 pili. <i>Mol. Micro.</i> 12(3):387-401 (1994).						
Examiner Signature		Date Considered						